

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. USA-U-13252
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Southland Royalty Company			7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Drawer 570, Farmington, New Mexico 87401			8. FARM OR LEASE NAME BURR DESERT
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1990' FNL & 750' FEL' SE NE At proposed prod. zone Same			9. WELL NO. #1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 18.7 miles southeast of Hanksville, Utah			10. FIELD AND POOL, OR WILDCAT Wildcat Unnamed Field
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1990'		16. NO. OF ACRES IN LEASE 2560	11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec. 24, T30S, R12E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A		17. NO. OF ACRES ASSIGNED TO THIS WELL 160	12. COUNTY OR PARISH Wayne
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5165' GR		19. PROPOSED DEPTH 6700' <i>wasatch</i>	13. STATE Utah
20. ROTARY OR CABLE TOOLS Rotary			22. APPROX. DATE WORK WILL START* October 15, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8" New	48#, H-40, ST&C	200'	235 sx Cl B w/3% CaCl ₂
12 1/4"	*8 5/8" New	24#, K-55, ST&C	3000'	325 sx Cl B w/additives
7 7/8"	5 1/2" New	14#, K-55, ST&C	6700'	900 sx Cl B 50/50 Poz w/adds.

1. Drill 17 1/2" surface hole and set 13 3/8" surface casing to 200' with good returns.
2. Log BOP Checks in daily drilling reports and drill 12 1/4" hole to 3000'.
- * 3. Run logs and run 8 5/8" casing only if lost circulation has occurred.
4. Run logs and run 5 1/2" casing if productive.
6. Run other logs as needed and perforate and stimulate as needed.

Exhibits Attached

- | | |
|--|-------------------------------|
| "A" Location and Elevation Plat | "H" Drill Rig Layout |
| "B" The Ten-Point Compliance Program | "J" Rehabilitation Plan |
| "C" The Blowout Preventer Diagram | "K" Fracturing Program layout |
| "D" The Multi-Point Requirements for A. P. D. | |
| "E & E ₁ " Access Road Map Into Location | |
| "F" Radius Map of Field | |
| "G" Drill Pad Layout & Cut - Fill Section, Production Facilities | |

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE District Production Manager DATE 9-27-79

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

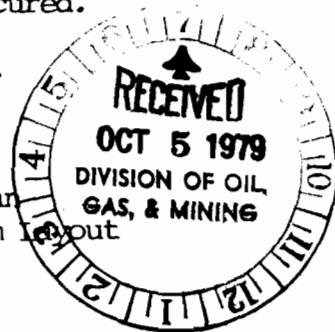


EXHIBIT "A"

LOCATION AND ELEVATION PLAT

COMPANY SOUTHLAND ROYALTY COMPANY

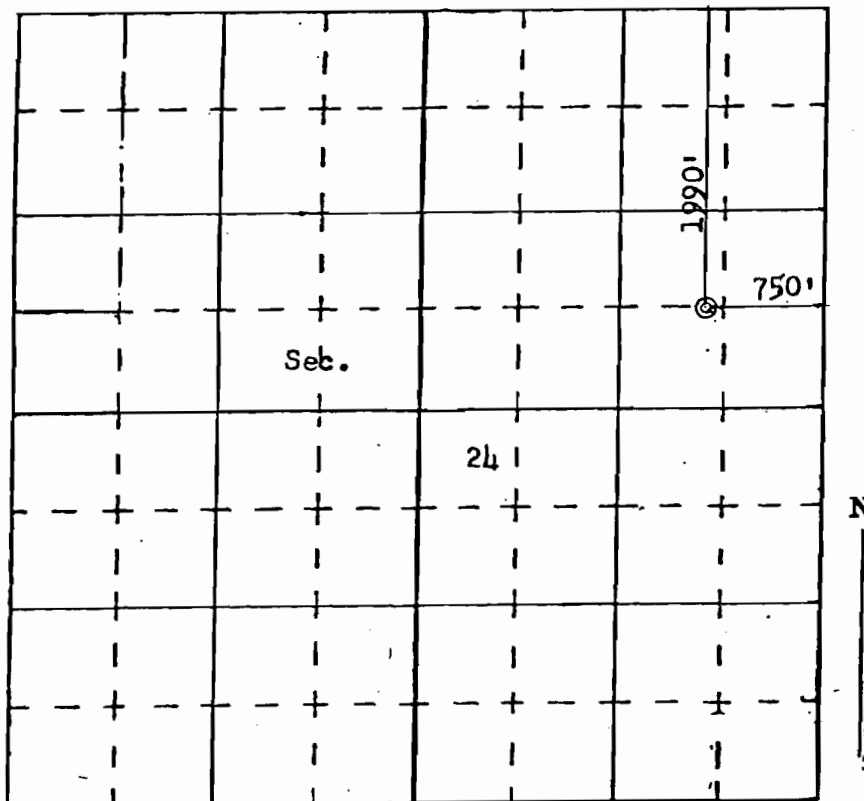
LEASE BURR DESERT WELL NO. 1

SEC. 24, T. 30S, R. 12E

WAYNE COUNTY, UTAH

LOCATION 1990'FNL 750'FEL

ELEVATION 5165 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.
Fred B. Kerr Jr.

SEAL:

Registered Land Surveyor.

#3950

SURVEYED August 20, 1979

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C

SOUTHLAND ROYALTY COMPANY

#1 Burr Desert - Federal

1190' FNL & 750' FEL, Sec. 24, T30S, R12E
Wayne County, Utah

1. The Geologic Surface Formation

The surface formation is Entrada.

2. Estimated Tops of Important Geological Markers

Wingate	1240'	Penn	4250'
Chinle	1530'	Ismay	4600'
Moenkopi	1825'	Paradox	7425'
Kaibab	2260'	Molas	5340'
White Rim	2275'	Miss	5460'
Organ Rock	2735'	Devonian	6190'
Cedar Mesa	2945'	McCracken	6540' ✓
Elephant Canyon	3790'		

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Navajo	400'	Water
Pennsylvanian	4250'	Oil & Gas

4. The Proposed Casing Program

- (a) Surface Casing: Set 13 3/8", new H-40, 48#, ST & C, at 200' in 17 1/2" hole; cement with 235 sacks of Class "B" with 3% CaCl_2 (100% excess to circulate cement to surface).
- (b) Intermediate Casing: (to be run only if lost circulation occurs) Set 8 5/8", new K-55, 24#, ST & C at 3000' in 12 1/4" hole; cement with 255 sacks of 50/50 Class "B" poz with 6% gel and 1/4# cello flake per sack. Tail in with 70 sacks of Class "B" cement with 2% CaCl_2 (50% excess to cover White Rim).
- (c) Production Liner: Set 5 1/2", new K-55, 14#, ST & C at 6700' in a 7 7/8" hole; cement with 900 sacks 50/50 Class "B" poz with 6% gel and .6% Halad 9 and 1/4# gel flake per sack (100% excess to circulate liner).

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to the full working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of hole. Such checks of the BOP will be noted on daily drilling reports.

Accessories to BOP will include an upper and lower kelly cock, floor safety valve, drill string BOP and chock manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

This well will be drilled with fresh water, low solids mud from surface to total depth. Exhasust will be muffled. Other materials will be on site to handle any anticipated downhole problems as well as possible spill of fluids on the surface.

7. The Auxiliary Equipment to be Used

- (a) A kelly cock will be kept in the string at all times.
- (b) A float will be used at the bit at all times.
- (c) A mud logging unit and gas detecting device will be monitoring the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

- (a) Will test all shows below 3500'.
- (b) The logging program will consist of BHC Sonic, FDC/CNL with caliper, SP DIL and GR. Other logs will be determined at well site to best evaluate any shows.
- (c) Anticipate coring 270' selectively thru the Paradox.
- (d) Completion will be determined after review of logs and tests

9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

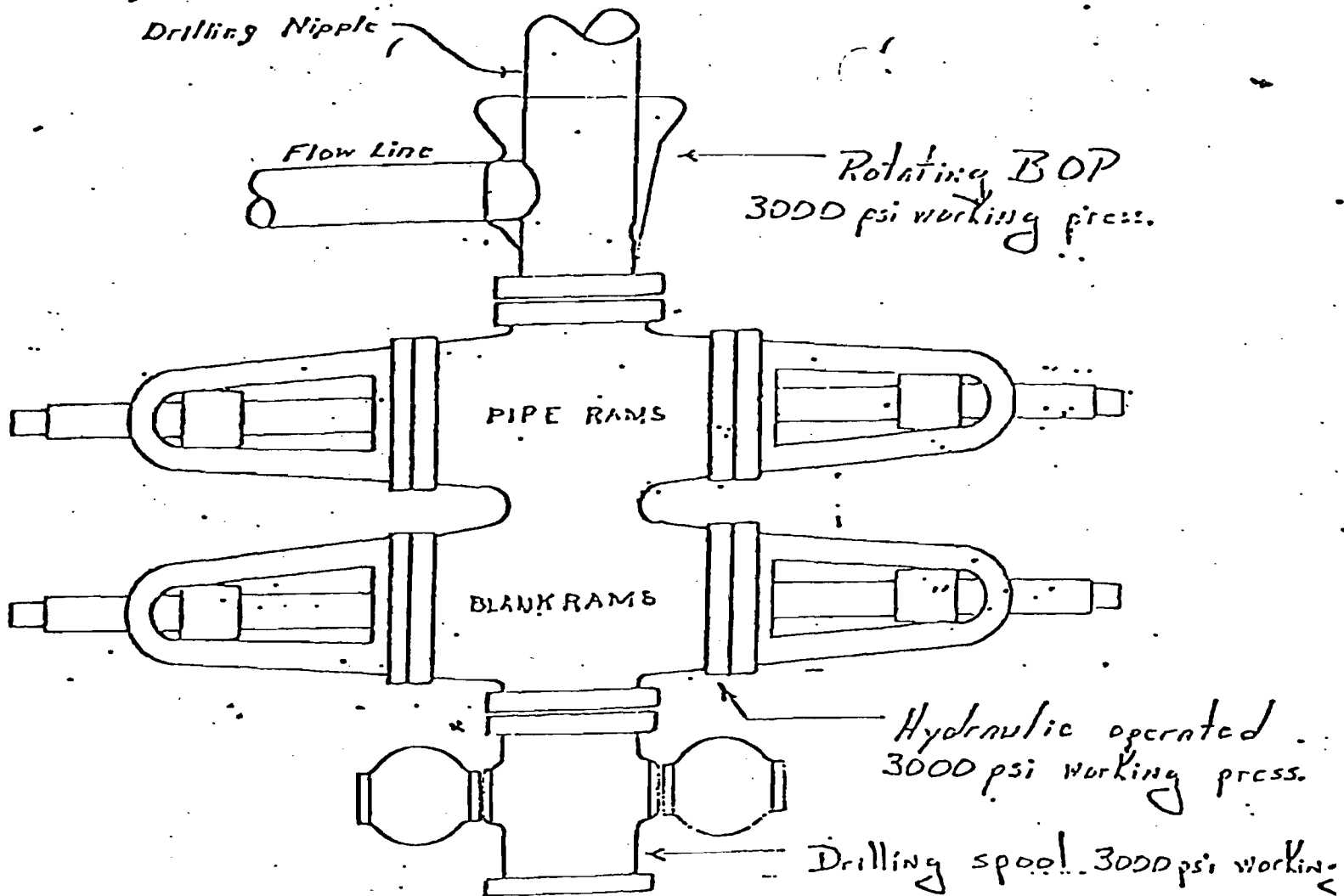
No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for November 1, 1979, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 30 days after spudding well and drilling to casing point.

EXHIBIT "C"

BLOWOUT PREVENTER DIAGRAM



Preventers and spools are to have
through bore of 6" - 3000⁺ PSI or larger.

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C

#1 Burr Desert - Federal
Section 24, T30S, R12E
1990' FNL & 750' FEL
Wayne County, Utah

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A".
- B. The distance from Hanksville, Utah is 15.5 miles. Proceed South 15.5 miles on highway 95; thence left 3.2 miles on Dell Seep Road; thence left 2.5 miles North of Dell Seep Road to location, as shown on EXHIBIT "E" and EXHIBIT "E₁".
- C. All roads are color-coded into location, as shown on EXHIBIT "E₁".
- D. N/A.
- E. This is an exploration well. All existing roads within a two-mile radius are shown on EXHIBIT "E".
- F. 3.6 miles of Dell Seep road will need only minor improvements. 2.5 miles of seismic trail from Dell Seep road to location will be upgraded to 20' road bed. Maintenance will be performed as required.

2. Planned Access Roads

Map showing all necessary access roads to be constructed or reconstructed is shown as EXHIBIT "E₁" for the following

- (1) The maximum width of the running surface of the access road will be 20'.
- (2) Grade will be less than 8% on all roads.
- (3) No turn outs are planned.
- (4) Appropriate water bars will be constructed to assure drainage off location to conform with the natural drainage pattern and off road bed.
- (5) No culverts are planned, however, they will be installed at two wash crossings if necessary. No major cut or fills are anticipated along access road during drilling operations.
- (6) Surfacing material will be native soil.
- (7) No gates, cattle guards or fence cuts are needed.

- (8) The new access road to be built has been staked during the time of staking the location, as is centerline as shown on EXHIBIT "E₁".

3. Location of Existing Wells

For all existing wells within a one-mile radius of this exploration well see EXHIBIT "F".

- (1) There are no water wells within a one-mile radius of this location.
- (2) There are no abandon wells in this one mile radius.
- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There are no wells presently being drilled.
- (6) There are no producing wells within this one-mile radius.
- (7) There are no shut in wells.
- (8) There are no injection wells.
- (9) There are no monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

- A. Within a one-mile radius of location the following existing facilities are owned or controlled by lessee/operator:

- (1) Tank Batteries: None
- (2) Production Facilities: None
- (3) Oil Gathering Lines: None
- (4) Gas Gathering Lines: None
- (5) Injection Lines: None
- (6) Disposal Lines: None

- B. If production is obtained, new facilities will be as follows:

- (1) Production facilities will be located on solid ground of cut area of drill pad, as shown on EXHIBIT "G".

- (2) All well flow lines will be burried and will be on the well site and production site.
 - (3) Facilities will be 300 feet long and 150 feet wide.
 - (4) All construction materials for condensate storage site and pad will be obtained from site. No additional material from outside sources is anticipated.
 - (5) Any necessary pits will be fenced and flagged to protect livestock and wildlife.
- C. Rehabilitation, whether well is productive or dry, will be made on all unused areas in accordance with the restoration plans presented in ITEM #10 following.

5. Location and Type of Water Supply

- A. The source of water will be the Fremont River at Hanksville.
- B. Water will be transported by truck over existing roadways.
- C. No water well is to be drilled on this lease.

6. Construction Materials

- A. No Construction materials are needed for drilling or access roads into the drilling location unless production is obtained. The surface soil materials will be sufficient or will be purchased from the Dirt Contractor as needed.
- B. No construction materials will be taken off this Federal land.
- C. All surface soil materials for construction of access roads are sufficient.
- D. All major access roads presently exist as shown on EXHIBIT "E".

7. Handling of Waste Materials and Disposal

- (1) Drill cuttings will be burried in the reserve pit and covered.
- (2) Drilling fluids will be handled in the reserve pit.
- (3) Any fluids produced during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt waters or other noxious fluids will be cleaned up and removed.
- (4) Chemical facilities will be provided for human waste.

- (5) Garbage and non-flammable waste and salts and other chemicals produced during drilling or testing will be handled in trash pit. Flammable waste will be disposed of in burn pit. Drill fluids, water, drilling mud and tailings will be kept in reserve pit, as shown on EXHIBIT "H".
- (6) After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. Any dangerous open pit will be fenced during drilling and kept closed until such time as the pit is leveled. Reserve pit will be fenced on three sides and the fourth side fenced upon removal of the rig. The trash and or burn pit will be totally enclosed with small mesh wire.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

- (1) EXHIBIT "G" is the Drill Pad Layout as staked, with elevations, by Kerr Land Survey of Farmington, New Mexico. Cuts and fills have been drafted to visualize the planned cut across the location spot and to the deepest part of the pad. Topsoil will be stockpiled per BLM specifications determined at time of predrill inspection.
- (2) EXHIBIT "H" is a plan diagram of the proposed rig and equipment, reserve pit, burn and trash pit, pipe racks and mud tanks. No permanent living facilities are planned. There will be a trailer on site.
- (3) EXHIBIT "G" includes a diagram showing the proposed production facilities layout.
- (4) The reserve pits will not be lined. Steel mud tanks may be used during drilling operations.

10. Plans for Restoration

Location will be rehabilitated according to BLM specifications as soon as drilling operations have been completed.

11. Other Information

- (1) The soil is blow sand. No distinguishing geological features are present. The area is covered with sparse scrub vegetation. Primary wildlife are rabbits and coyotes. The topography is gently rolling northward dip.

- (2) The primary surface use is grazing. The surface is owned by the United States Government.
- (3) The closest live water is the Dirty Devil River located 5 miles East of location, as shown on EXHIBIT "E".

The closest occupied dwellings are 7 miles West of the proposed location, as shown on EXHIBIT "E".

There are no known archaeological, historical or cultural heritages that will be disturbed by this drilling.

- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for, on, or about October 15, 1979. It is anticipated that the final casing point will be reached within 30 days after commencement of drilling.

12. Lessee's or Operator's Representative

L. O. Van Ryan
Southland Royalty Company
P. O. Box 570
Farmington, New Mexico
Phone (505) 325-1841

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Southland Royalty Company and it's contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date



L. O. Van Ryan
District Production Manager
Southland Royalty Company

REHABILITATION PLAN

Southland Royalty Company intends to drill a well on surface owned by Bureau of Land Management. The lessee/operator agrees to complete the following rehabilitation work if the well is a producer:

 X Yes No Reshape and reseed any area not needed for maintenance of the pump and support facilities.

Other requirements: None

 X Yes No Water bars will be constructed on the access road as deemed necessary.

Other requirements: None

Name: Southland Royalty Company
Address: P. O. Drawer 570
City: Farmington
State: New Mexico
Telephone: (505) 325-1841
Date: 9-27-79

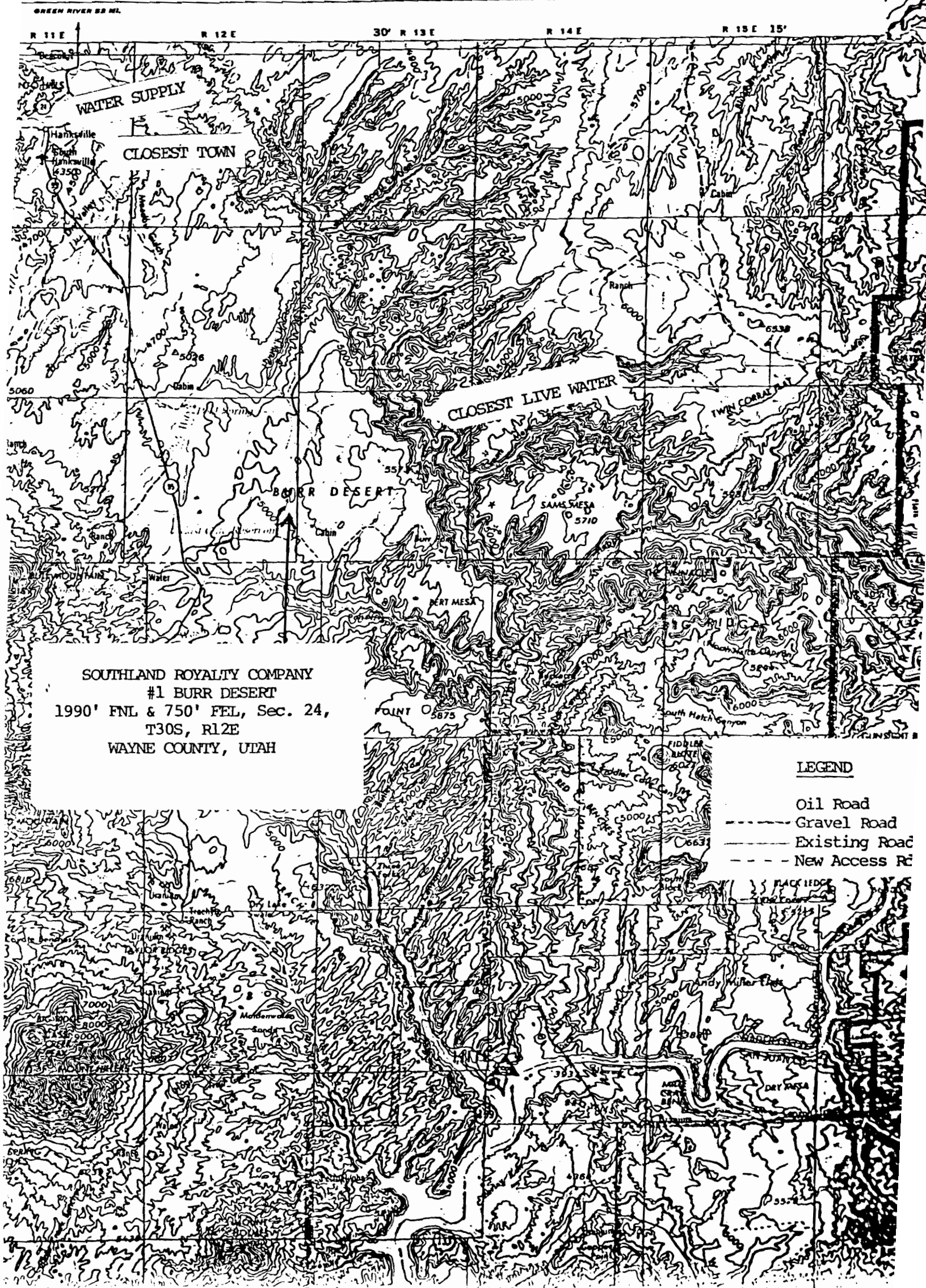
N/A
(Surface Owner's Signature)

This plan covers rehabilitation requirements only and does not affect any other agreements between the lessee/operator and surface owner.

EXHIBIT "E"

ACCESS ROAD ONTO LOCATION

RECREATION AREA



SOUTHLAND ROYALTY COMPANY
#1 BURR DESERT
1990' FNL & 750' FEL, Sec. 24,
T30S, R12E
WAYNE COUNTY, UTAH

LEGEND

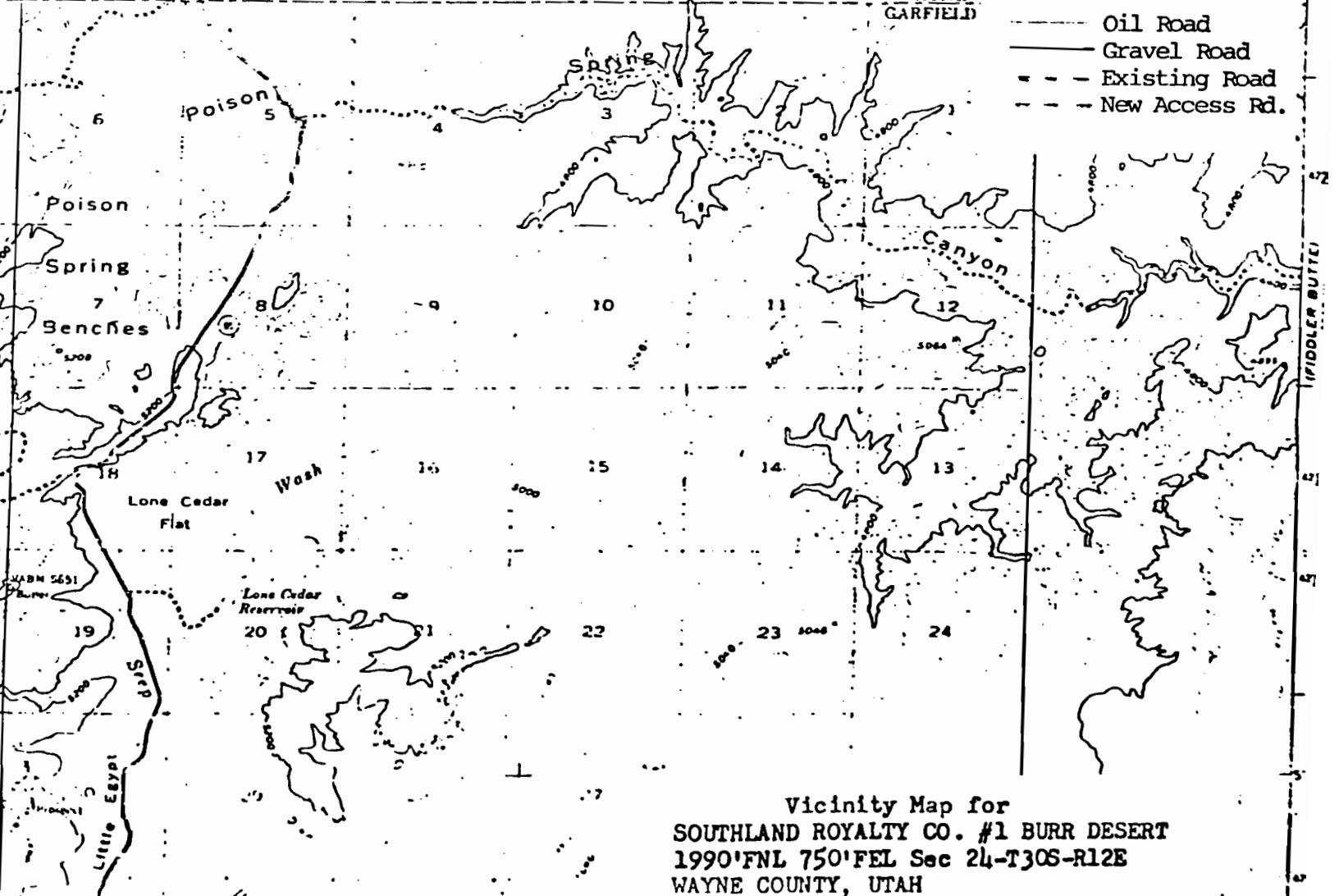
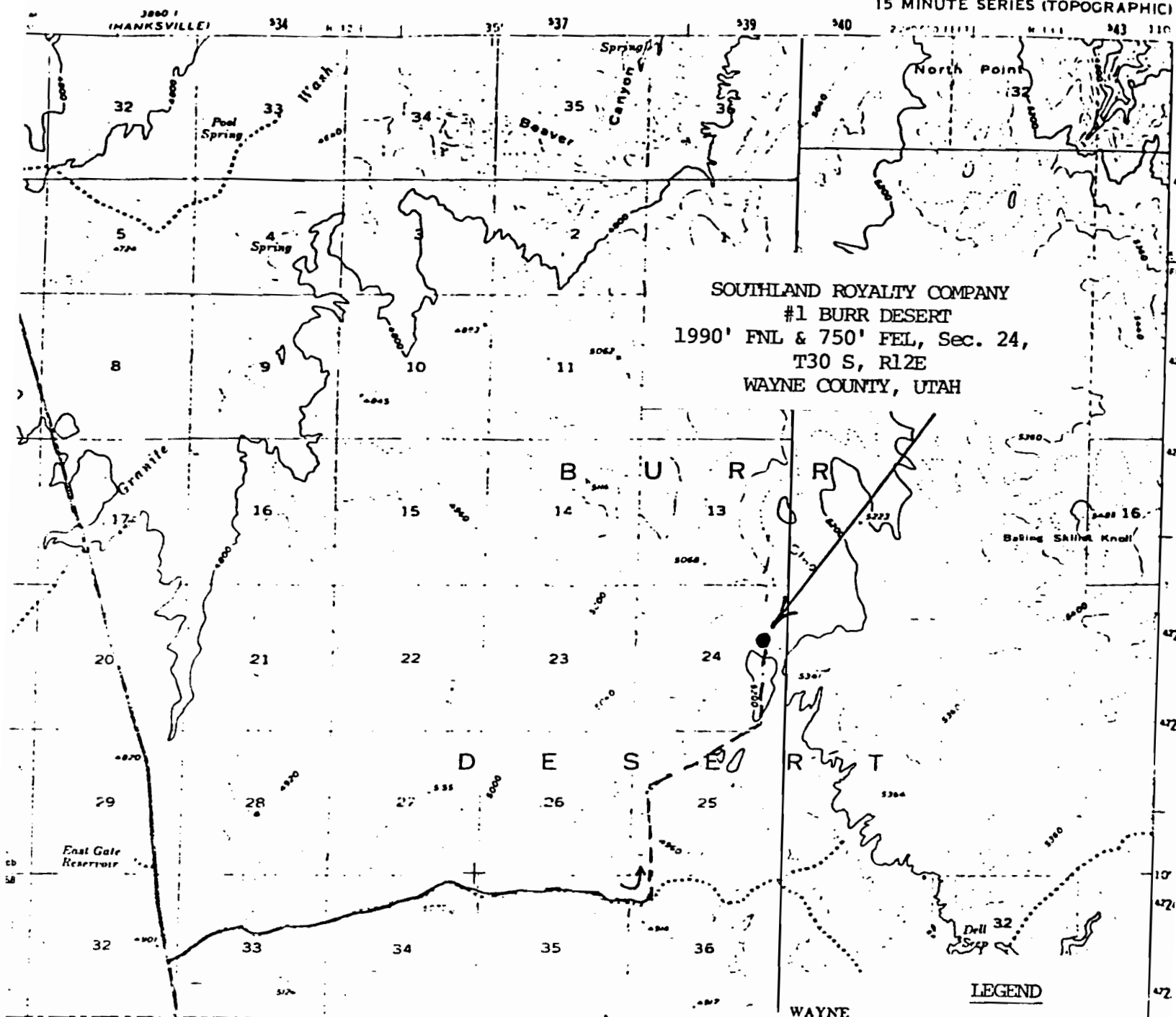
- Oil Road
- Gravel Road
- Existing Road
- New Access Road

ACCESS ROAD TO LOCATION

BULL MOUNTAIN QUADRANGLE

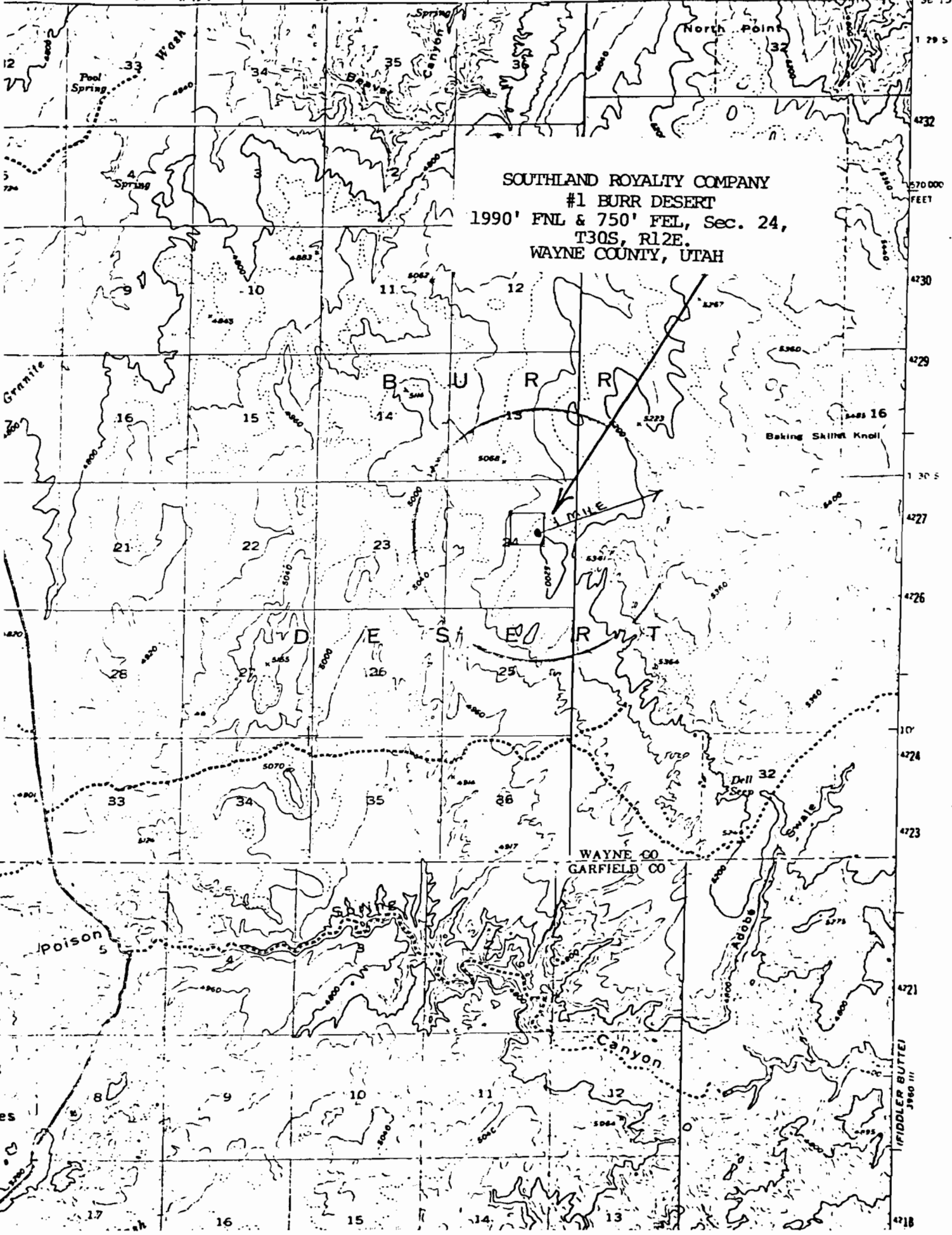
UTAH

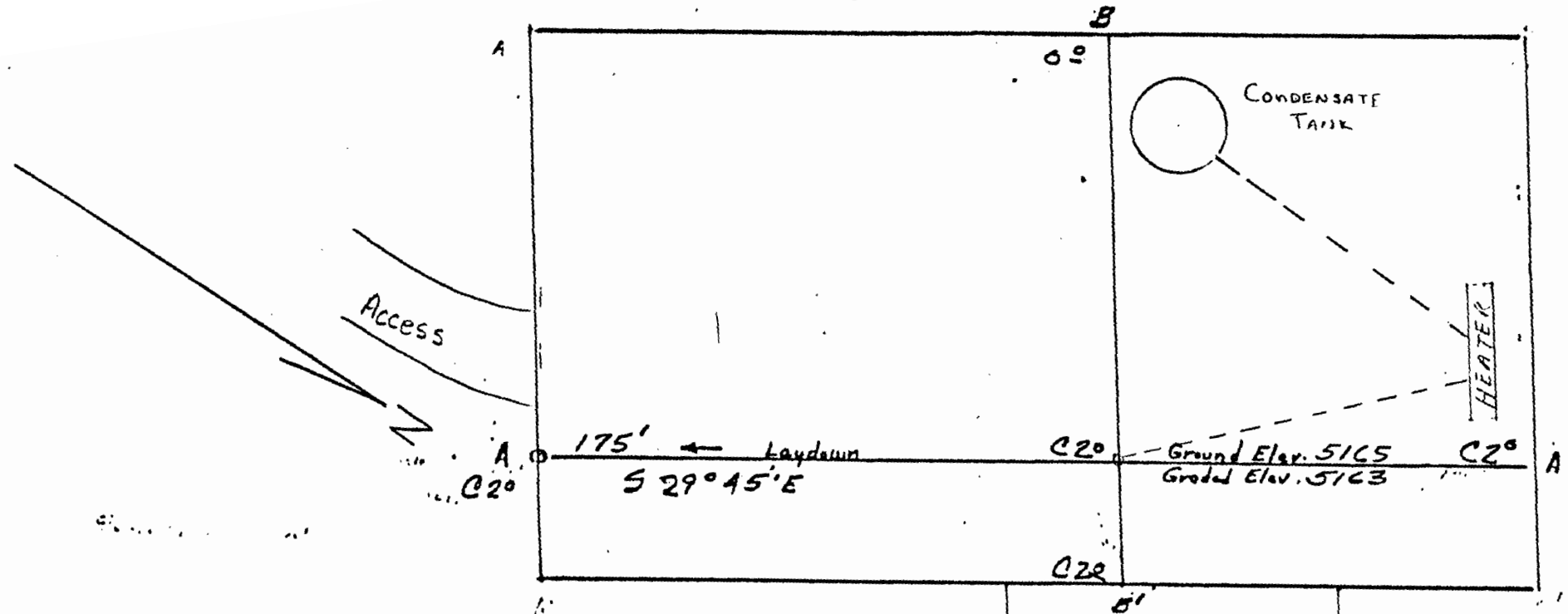
15 MINUTE SERIES (TOPOGRAPHIC)



ROBBERS POL

3800 I
(ANKSVILLE) 334 N 12 E 35' 337 339 340 2280000 FEET N 12 E 343 38'15"





Vert. 1"=40'

A-A'

Horiz: 1"=100'

5170				
5160				
5150				

B-B'

±

5170				
5160				
5150				

Reserve

Pit

F10

X

Vert: 1"=40'

C-C'

±

Horiz: 1"=100'

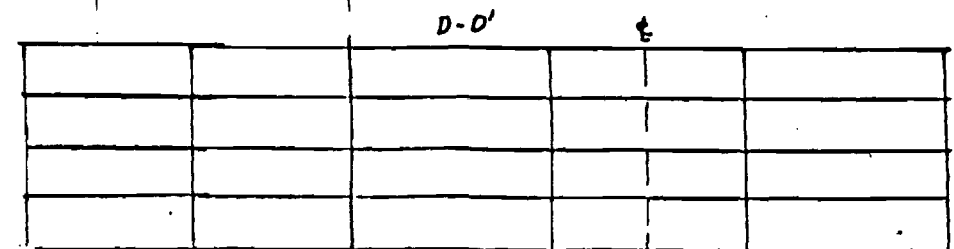
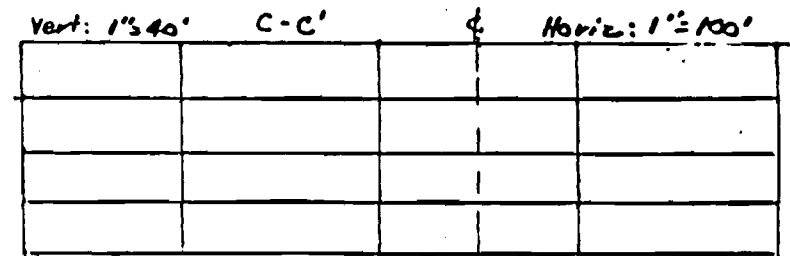
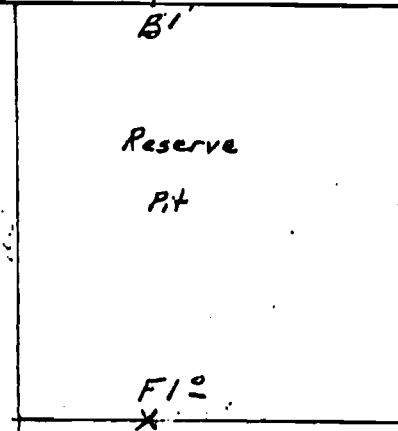
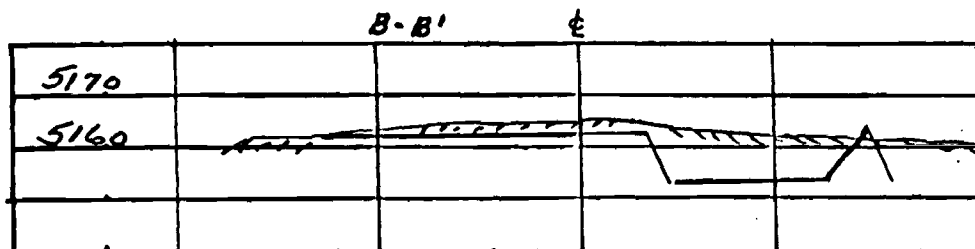
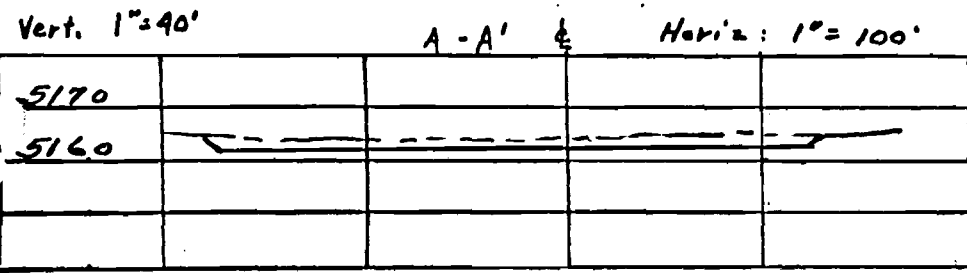
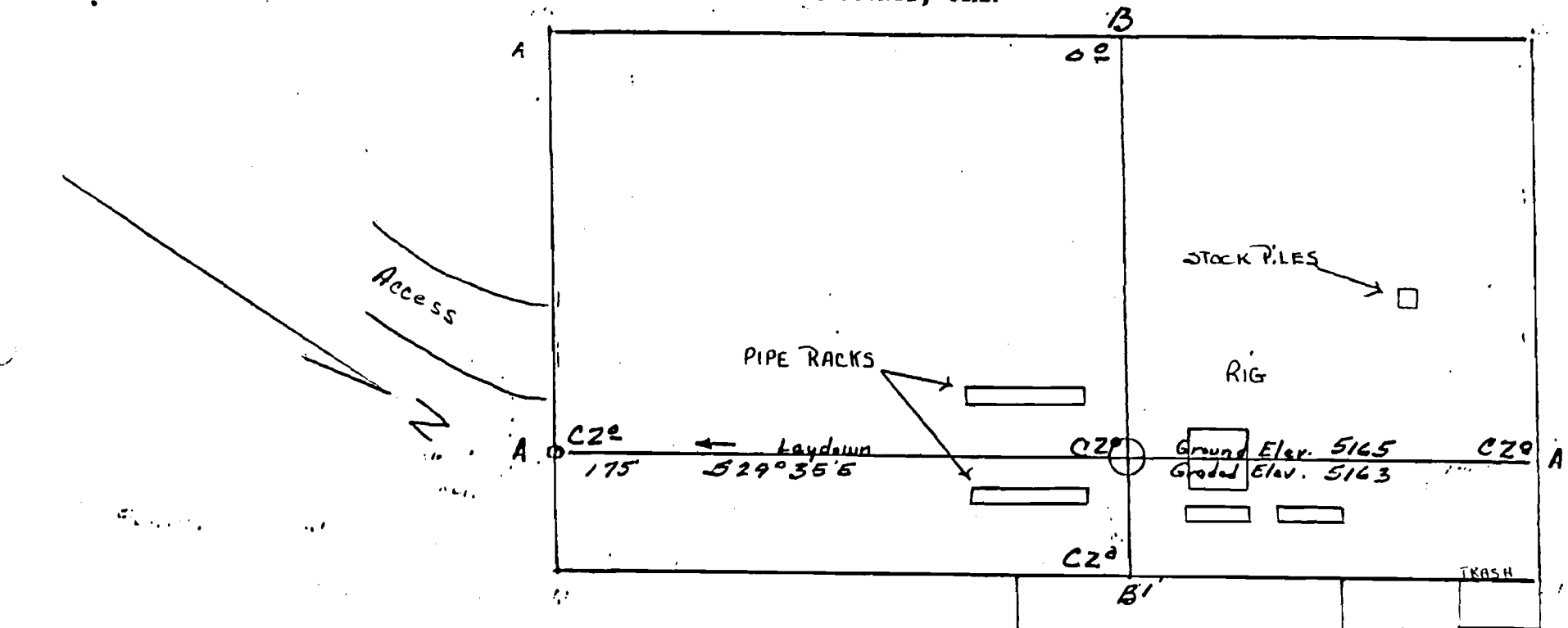
D-D'

±

KERR LAND

LOCATION PROFILE FOR
SOUTHLAND ROYALTY COMPANY #1 BURR DESERT
1990' FNL 750' FEL Sec 24-T3OS-R12E
WAYNE COUNTY, UTAH

EXHIBIT "H"
DRILL RIG LAYOUT



KERR LAND SURVEYING
Date: 8/20/79

SOUTHLAND ROYALTY CO. #1 BURR DESERT
1990' FNL 750' FEL Sec 24-T3OS-R12E
WAYNE COUNTY, UTAH

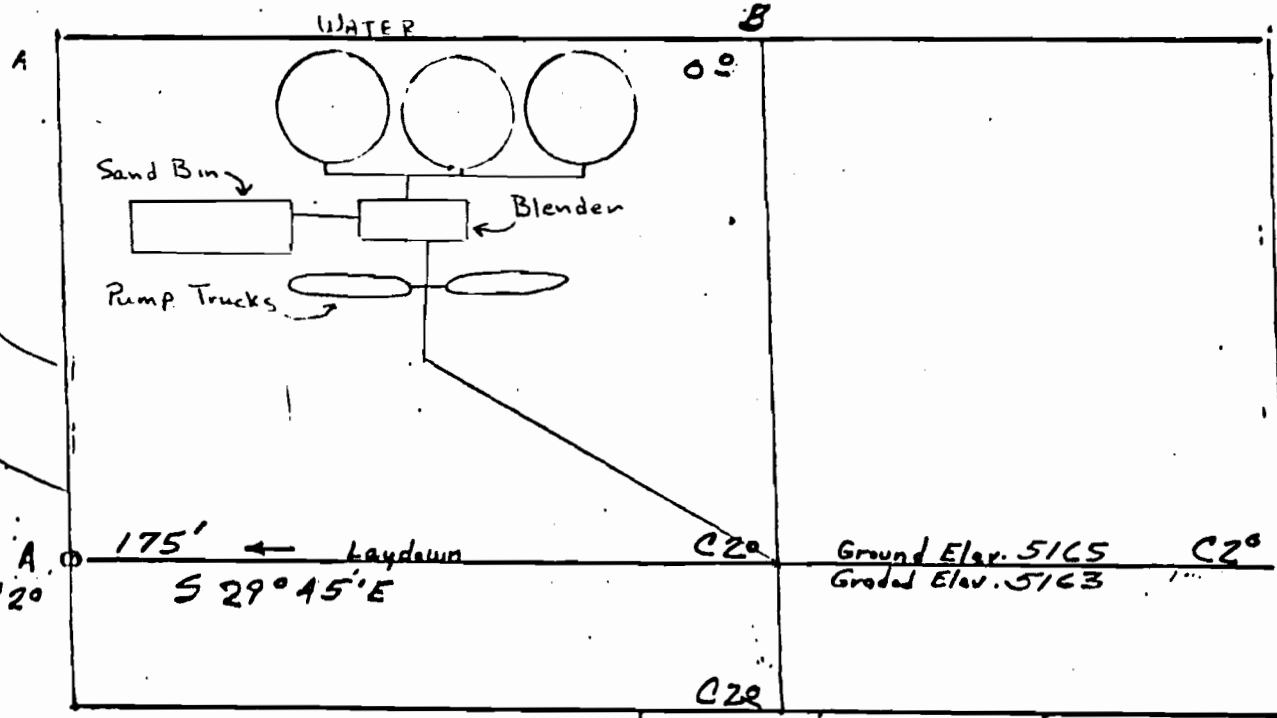


EXHIBIT "K"
FRACTURING PROGRAM LAYOUT

Vert. 1"=40'

A-A'

Horiz: 1"=100'

5170				
5160	[Hand-drawn profile line]			
5150				

Reserve

Pt

F12

Vert: 1"=40'

C-C'

Horiz: 1"=100'

B-B'

±

5170				
5160	[Hand-drawn profile line]			
5150				

D-D'

±

KERR LAND SURVEYING
Date: August 20, 1979

FILE NOTATIONS

Entered in NID File	Checked by Chief
Location Map Pinned	Approval Letter
Card Indexed	Disapproval Letter

COMPLETION DATA:

Well Completed <i>2-22-80</i>	Location Inspected
.... WW..... TA.....	Bond released
.... OS..... PA.....	State or Fee Land

LOGS FILED

Driller's Log.....
 Electric logs (G.S.)
 E..... I..... Dual I Lat..... ~~MI-L~~..... Micro.....
 BHC Sonic GR..... Lat..... MI-L..... Sonic.....
 CLog..... CLog..... Others.....

**** FILE NOTATIONS ****

DATE: October 5, 1979

Operator: Southland Royalty Company

Well No: Burr Desert #1

Location: Sec. 24 T. 30S R. 12E County: Wayne

File Prepared: ☐

Entered on N.I.D.: ☒

Card Indexed: ☒

Completion Sheet: ☒

☒ API Number 43-055-30026

CHECKED BY:

Geological Engineer: _____

Petroleum Engineer: _____

Director: OK CBT

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. _____

O.K. Rule C-3 ☒

Rule C-3(c), Topographic Exception/company owns or controls acreage
within a 660' radius of proposed site ☐

Lease Designation Ed

Plotted on Map ☒

Approval Letter Written ☒

Wm

#1

PIKE

October 10, 1979

Southland Royalty Company
P.O. Drawer 570
Farmington, New Mexico 87401

Re: Well No. Burr Desert #1
Sec. 24, T. 30S, R. 12E.,
Wayne County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify one of the following:

MICHAEL T. MINDER
Geological Engineer
Office: 533-5771
Home: 876-3001

FRANK M. HAMNER
Chief Petroleum Engineer
Office: 533-5771
Home: 531-7827

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this Form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-055-30026.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

/b:tm

cc: USGS

DUAL DATE

SUBMIT IN PLICATE*
(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-B1425.UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Southland Royalty Company

3. ADDRESS OF OPERATOR

P. O. Drawer 570, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1990' FNL & 750' FEL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

18.7 miles southeast of Hanksville, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1990'

16. NO. OF ACRES IN LEASE

2560

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

19. PROPOSED DEPTH

6700

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5165' GR

22. APPROX. DATE WORK WILL START*

October 15, 1979

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8" New	48#, H-40, ST&C	200'	235 sx Cl B w/3% CaCl ₂
12 1/4"	*8 5/8" New	24#, K-55, ST&C	3000'	325 sx Cl B w/additives
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- * 3. Run logs and run 8 5/8" casing only if lost circulation has occurred.
4. Run logs and run 5 1/2" casing if productive.
6. Run other logs as needed and perforate and stimulate as needed.

Exhibits Attached

"A" Location and Elevation Plat
"B" The Ten-Point Compliance Program
"C" The Blowout Preventer Diagram
"D" The Multi-Point Requirements for A. P. D.
"E & E₁" Access Road Map Into Location
"F" Radius Map of Field
"G" Drill Pad Layout & Cut - Fill Section, Production Facilities
"H" Drill Rig Layout
"J" Rehabilitation Plan
"K" Fracturing Program Layout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE District Production Manager DATE 9-27-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

State of Utah, Department of Natural Resources
Division of Oil, Gas, and Mining
1638 West North Temple
Salt Lake City, Utah 84116

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

*See Instructions On Reverse Side

NOTICE OF APPROVAL

TO OPERATOR'S COPY

: DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

ST: APD MINERAL EVALUATION REPORT

LEASE NO. 613224

OR: Southland Royalty Company

WELL NO. Burr Desert #1

ON: 1/4 SE 1/4 NE 1/4 sec. 24, T. 30 S, R. 12 E,

Wayne County, Utah

Lithology:	Quaternary sand - surface			Elephant Canyon	5710	+1375
	Entrada			Pennsylvanian	4250	+915
	Wingate	1240	+3925	Ismay	4600	+565
	Chinle	1530	+3635	Paradox	4725	+440
	Moenkopi	1825	+3340	Molas	5340	-175
	Kaibab	2260	+2905	Mississippian	5460	-295
	White Kim	2275	+2890	Devonian	6170	-1025
	Organ Rock	2735	+2430	McCraden	6540	-1385
	Cedar Mesa	2945	+2220			

Sh Water:

See attached WRD report from sec 4.; T.30 S.; R.13 E.

Operator expects fresh water in the Navajo.

able Minerals: None

ditional Logs Needed: Atk logging program appears to be adequate.

ential Geologic Hazards:

A.W.U. in sec 34; T. 30 S.; R. 13 E.

reported sulfur odor from a core in the Pennsylvanian. Sulfur water
was recovered from the well. No actual H₂S gas has been reported.

ferences and Remarks: U.S.G.S. L.R., SLC Utah

ure: J. Paul Matreux

Date: 10 - 15 - 79

Depths of fresh-water zones:

Mountain Fuel Supply Co., Dirty Devil Unit No. 1, Wildcat
2,090' fel, 660' fsl, sec. 4, T.30 S., R.13 E., SLB&M, Wayne Co., Utah
Elev. 5,293 ft, proposed depth 6,500 ft

<u>Stratigraphic unit</u>	<u>Tops, approx.</u>	<u>Quality of water</u>
Carmel Fm	surface	(dry)
Navajo Ss	40 ft	(dry but permeable)
Kayenta Fm	630	(dry)
Wingate Ss	890	(dry but permeable)
Chinle Fm	1,180	(dry)
Shinarump Mem	1,500	useable(?)
Moenkopi Fm	1,560	saline
Cutler Fm		
White Rim Mem	2,050	saline
Organ Rock Mem	2,460	saline
Cedar Mesa Mem	2,580	saline
Hermosa Fm		
Honaker Trail Mem	3,480	brine
Paradox Mem	4,280	brine
Pinkerton Trail Mem	5,330	brine
Molas Fm	5,620	brine
Mississippian strata	5,800	brine

There are no water wells of record in the near vicinity of the proposed test. Formations of the Glen Canyon Group are dry at this location. However, they dip gently northwestward toward areas where the Navajo and Wingate Sandstones are known to be aquifers of fresh water. Useable water may be present in the Shinarump Member, but deeper aquifers contain saline water or brine at this location.

Oil and Gas Drilling

EA #007-80

United States Department of the Interior
Geological Survey
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No.: U-12352

Operator. Southland Royalty Company

Well No.: 1

Location: 1990' FNL & 750' FEL Sec.: 24 T.: 30S. R.: 12E.

County: Wayne

State: Utah

Field: Unnamed

Status: Surface Ownership: Public Minerals. Federal

Joint Field Inspection Date: October 25, 1979

Participants and Organizations:

Bob Fieldler
Ken Kramme
Larry Gearhart
Jim Boulden
Don Englishman

Southland Royalty Co.
Century Resources (Archaeologist)
BLM-Hanksville
Boulder Contractors
USGS

Related Environmental Analyses and References:

(1) Unit Resource Analysis, Henry Mountain Planning Unit, BLM,
Hanksville, Utah

Analysis Prepared by: Donald Englishman and
Environmental Scientist
Durango, Colorado

George Diwachak
Environmental Scientist
Salt Lake City, Utah

Date: November 13, 1979

Proposed Action:

On October 4, 1979, Southland Royalty Co. filed an Application for Permit to Drill the No. 1 exploratory well, a 6700 ft. oil test of the Pennsylvanian and Devonian Formations; located at an elevation of 5165 ft. in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 24, T. 30S., R. 12E. on Federal mineral lands and public surface; lease No. U-12352. There was no objection raised to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the USGS District Office in Salt Lake City, Utah and the USGS Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the BLM, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 300 ft. wide by 300 ft. long including a reserve pit. No new access road would be constructed; however, approximately 25 miles of access road averaging 18-20 ft. in width would need to be reconstructed from a maintained road. The operator proposes to construct production facilities on disturbed area of the proposed drill pad.

If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The anticipated starting date is upon approval and duration of drilling activities would be about 30 days.

Location and Natural Setting:

The proposed drill site is approximately 19 miles Southeast of Hanksville, Utah, the nearest town. A poor road runs to the location. This well is a Wildcat.

Topography:

The topography in the vicinity of the test site is a stalulized sand dune with a slightly rolling surface. The site is located in the extreme Western edge of the Paradox Basin of Southeastern Utah.

Geology:

The surface geology is the Entrada Formation.

The soil is sand.

No geologic hazards are known near the drillsite.

Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydro-carbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area are snads. The soil is not readily subject to runoff from rainfall and has a slow runoff potential and sediment production would be low. The soils are mildly to moderately alkaline and support the salt-desert shrub

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 8 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

Precipitation:

Annual rain fall should range from about 6 to 8" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 7".

Winds are medium and gusty, occurring predominately from West-Southwest to East-Northeast. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

The location is within the Dirty Devil Drainage of the Colorado River Basin. There are no line streams in the vicinity of the proposed well. A dry wash is located Northeast of the location.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential

for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined unless soil conditions do not provide a tight stable pit. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Vegetation in the area consists mainly of blackbrush, broom snakeweed, indian rice grass, galleta grass, Mormon tea, four wing saltbush, cacti and annuals.

Plants in the area are of the salt-desert-shrub.

Proposed action would remove about 8 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

The fauna of the area consists predominantly of antelope, desert bighorn sheep, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, jay, and seasonal species.

An animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations; activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the immediate area but should not present a major intrusion.

The economic effect on one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Wayne County.

But should this well discover a significant new hydrocarbon source, local, state, and possible national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Henry Mountain Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternative to the Proposed Action:

(1) Not approving the proposed permit-The oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabili-

tation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

(2) Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

Mitigative Measures:

Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator.

- A. The reserve pit should be lined if soil conditions do not provide a tight, sable pit.

Adverse Environmental Effects Which Cannot Be Avoided:

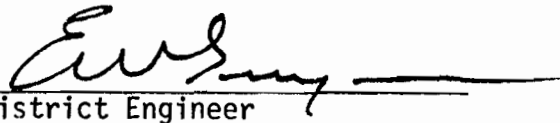
Surface disturbance and removal of vegetation from approximately 8 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spills of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution to the Dirty Devil River would exist through leaks and spills.

Determination:

This requested action does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102 (2) (C).

Date

11/19/79


District Engineer
U.S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

NAME OF COMPANY: Southland Royalty Company

WELL NAME: Burr Desert Unit #1

SECTION 24 SE NE TOWNSHIP 30S RANGE 12E COUNTY Wayne

DRILLING CONTRACTOR _____

RIG # _____

SPODDED: DATE 11/29/79

TIME 4:00 p.m.

How rotary

DRILLING WILL COMMENCE ASAP

REPORTED BY _____

TELEPHONE # _____

DATE December 6, 1979

SIGNED M. J. Menden

cc: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Southland Royalty Company
3. ADDRESS OF OPERATOR
P.O. Drawer 570, Farmington, New Mexico 87401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1990' FNL & 750' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>

(other) Revised Casing & Cement Program

5. LEASE
U-12352
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Burr Desert
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
Unnamed Field
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 14, T30S, R12E
12. COUNTY OR PARISH
Wayne
13. STATE
Utah
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5165' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

REVISED CASING PROGRAM:

Size of Hole	Size of Casing	Weight/Foot	Setting Depth	Quantity of Cmt
17-1/2"	13-3/8"	48#	200'	235 sacks
12-1/4"	9-5/8"	32.30# & 36#	2900'	600 sacks
7-7/8"	5-1/2"	14#	6700'	900 sacks

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: 1-21-80

BY: M. J. Mander

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Dist. Prod. Mgr DATE January 14, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

JAN 17 1980

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Southland Royalty Company
3. ADDRESS OF OPERATOR
P. O. Drawer 570, Farmington, New Mexico 87401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: *1990' FNL & 750' FEL*
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

- TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☒
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

- ☐
☐
☐
☒
☐
☐
☐
☐

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1-14-80 Ran 66 joints of 9-5/8", 32.30# & 36#, H-40 & K-55 casing set at 2890'. Cemented with 500 sacks of Class "B" 50/50 Poz with 6% gel, 1/4# gel flake per sack and 10# Kolite per sack. Followed by 100 sacks of Class "B" with 2% CaCl₂ and 1/4# gel flake per sack. Plug apparently released ahead of slurry. Casing was pressured up to 3000 psi while slurry was still inside casing. Pressure broke back to 0 psi. Suspect pipe was split. Set slips, cut off casing. Nipple up to clean out casing

(SEE OTHER SIDE).....

Subsurface Safety Valve: Manu. and Type

Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE *Dist. Prod. Mgr.*

DATE

January 21, 1980
JAN 21 1980

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

JAN 24 1980

CONDITIONS OF APPROVAL, IF ANY:

DIVISION OF
OIL, GAS & MINING

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well conditioned for final inspection looking to approval of the abandonment.

CPO : 1976 O - 214-149

CONTINUED.....

- 1-15-80 Went in hole with 8-3/4" bit. Tagged cement at 1207'. Cleaned out to float collar. Drilled float collar. No cement under float collar. Cleaned out to 2890'. Picked up RTTS packer. Located split in 9-5/8" between 1150' and 1300'. Set RTTS at 2800'. Established Rate of 7BPM at 1000 psi around shoe. No circulation to surface.
- 1-16-80 Set cement retainer at 2792'. Cemented shoe with 225 sacks of Class "B" w/2% CaCl₂ & 1/4# flocele/sx. Top of Cement by temperature survey at 2400'.
- 1-17-80 Set RTTS at 1040'. Cemented split with 225 sacks of Class "B" with 2% CaCl₂. Wait on cement 4 hours. Would not hold pressure. Re-cemented with 200 sacks of Class "B" with 2% CaCl₂. Squeezed to 1000 psi with 3 bbls slurry displaced. WOC 4 hours. Test to 1000 psi. Held OK.
- 1-18-80 Drilled cement from 1057' to 1207'. Pressure tested to 1000#/30 minutes.
- 1-19-80 Drilled cement retainer. Pressure tested to 600 psi/30 minutes.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(FORM 9-329)

(2/76)

OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 43-012352
Communitization Agreement No. _____
Field Name Unnamed
Unit Name _____
Participating Area _____
County Wayne State Utah
Operator Southland Royalty Company
☐ Amended Report WELL NAME Burr Desert

The following is a correct report of operations and production (including status of all unplugged wells) for the month of January, 19 80

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
<i>Burr Desert</i> 1	24 SENE	30S	12E	DRG					Drilling.

RECEIVED

FEB 19 1980

DIVISION OF
OIL, GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLS)	Gas (MCF)	Water (BBLS)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXX

Authorized Signature: [Signature] Address: P. O. Drawer 570, Farmington, New Mexico
Title: District Production Manager Page One of One 87401

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Southland Royalty (Kirk Tarsons 505-325-1841)

WELL NAME: Burr Desert Unit #1

SECTION 24 SE NE TOWNSHIP 30S RANGE 12E COUNTY Wayne

VERBAL APPROVAL GIVEN TO PLUG THE ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 6880'

CASING PROGRAM:

13 3/8" @ 214"
casing split at 1150' - 1220' was
squeezed (TOC 800)
9 5/8" @ 2890' (TOC 2400)
8 3/4" openhole 4569'
7 7/8" openhole TD

PLUGS SET AS FOLLOWS:

#1 5700' - 6050' 125 sx
#2 4800' - 5000' 60 sx
#3 3800' - 4000' 70 sx
#4 2800' - 3000' 75 sx
#5 900' - 1250' 130 sx
#6 150' - 250' 35 sx
Braden head squeeze 85 sx
#7 surface - 30' 10 sx

DATE February 18, 1980

cc: USGS

FORMATION TOPS:

Navajo	400'	Elephant Canyon	3830'
Kayenta	940'	Pennsylvanian	4315'
Wingate	1250'	Ismay	4830'
Chinle	1530'	Paradox	4900'
Moenkopi	1860'	Molas	5696'
White Rim	2360'	Mississippian	5865'
Organ Rock	2830'	Devonian	6480'
Cedar Mesa	2877'	Elbert	6740'

SIGNED Original Signed By M. T. Minder



SAN JUAN TESTING LABORATORY, INC.

907 West Apache
Farmington, New Mexico 87401
(505) 327-4966

736 Sixth Street
Durango, Colorado 81301
(303) 247-5766

BLACK DESERT #1

LABORATORY

REPORT

Client

Southland Royalty Company # 40020
PO Drawer 570
Farmington, New Mexico 87401

Job No. 981-171

Lab./Invoice No. 311-00054

Date of Report February 14, 1980

Project DST #1

Location Unknown

Sampled By Southland Royalty Co. Date 2/13/80

Source of Material Well Head 6088 6110'

Submitted By Mr. Fielder Date 2/13/80

Authorized By Mr. Fielder Date 2/13/80

WATER ANALYSIS FOR PETROLEUM ENGINEERING

Constituents

Test Results

Total Dissolved Solids

25, 203 mg/L

pH

6.7

Specific Gravity

1.019 at 72°F

Resistivity

0.238 ohm/meter at 25°C

Conductivity

42,000 micromhos/cm at 25°C

Comments

Suspended solids were hydrated iron oxide with some mud.

Constituents

Cations

meq/L

mg/L

Sodium

325.7

7,49

Calcium

67.6

1,35

Magnesium

29.0

354

Anions

Chloride

325.2

11,513

Bicarbonate

9.6

586

Carbonate

0

0

Hydroxide

0

0

Sulfate

87.5

4,200

RECEIVED

MAR 3 1980

DIVISION OF
OIL, GAS & MINING

Copies to:

Client (3)
Attn: Mr. Fielder

Respectfully submitted,

SAN JUAN TESTING LABORATORY

Clairon S. Cochran

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☐ well other ☐
2. NAME OF OPERATOR
Southland Royalty Company
3. ADDRESS OF OPERATOR
P.O. Drawer 570, Farmington, New Mexico 87401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1990' FNL & 750' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☒

5. LEASE
U-12352
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Burr Desert
9. WELL NO.
1
10. FIELD OR WILDCAT NAME
Unnamed
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 24, T30S, R12E
12. COUNTY OR PARISH
Wayne
13. STATE
Utah
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
5165' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

2-21-80 Spotted plugs as follows:

- #1 125 sacks Neat from 6050'-5700'
#2 60 sacks Neat from 5000'-4800'
#3 70 sacks Neat from 4000'-3800'
#4 75 sacks Neat from 3000'-2800'
#5 130 sacks Neat from 1250'- 900'
#6 35 sacks Neat from 250'- 157'
#7 85 sacks neat down 9-5/8" X 13-3/8" annulus.
10 sacks of cement at surface.

Installed dry hole marker.

Final clean up will be made at a later date.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE Dist. Prod. Mgr. DATE March 3, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:RECEIVED
MAR 10 1980

*See Instructions on Reverse Side

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other ☐
-
2. NAME OF OPERATOR
Southland Royalty Company
-
3. ADDRESS OF OPERATOR
P.O. Drawer 570, Farmington, New Mexico 87401
-
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1990' FNL & 750' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>
(other)	

SUBSEQUENT REPORT OF:

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: 3/11/80

BY: W. J. Menden

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9-5/8" casing set in 17-1/2" hole at 2890'.
8-3/4" hole drilled to 4569'.
7-7/8" hole drilled to 6880'.

FORMATION TOPS:

Navajo	380'	Organ Rock	2840'	Barker Creek	5218'
Kayenta	982'	Cedar Mesa	3006'	Pinkerton Trail	5330'
Wingate	1212'	Elephant Canyon	3840'	Molas	5692'
Chinle	1530'	Pennsylvanian	4328'	Mississippian	5826'
Moenkopi	1888'	Ismay	4752'	Devonian	6674'
White Rim	2350'	Paradox	4906'	Elbert	6738'
		Akah	5078'	McCracken	6804'

(CONTINUED OTHER SIDE.....)

Subsurface Safety Valve: Manu. and Type

Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Van Klee TITLE Dist. Prod. Mgr. DATE March 3, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL IF ANY: _____

CONDITIONS OF APPROVAL, IF ANY:

***See Instructions on Reverse Side**

5. LEASE <i>U-12352</i>	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME <i>Burr Desert</i>	
9. WELL NO. <i>1</i>	
10. FIELD OR WILDCAT NAME <i>Unnamed</i>	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <i>Section 24, T30S, R12E</i>	
12. COUNTY OR PARISH <i>Wayne</i>	13. STATE <i>Utah</i>
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) <i>5165' GR</i>	

DIVISION OF
OIL, GAS & MINING

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well conditioned for final inspection looking to approval of the abandonment.

GPO : 1976 O - 214-149

2. LEASE

Spot

- #1
- #2
- #3
- #4
- #5
- #6
- #7

Plugs as follows:

125 sacks Neat from 6050'-5700'
60 sacks Neat from 5000'-4800'
70 sacks Neat from 4000'-3800'
75 sacks Neat from 3000'-2800'
130 sacks Neat from 1250'- 900'
35 sacks Neat from 250'- 157'
85 sacks Neat down 9-5/8" X 13-3/8" annulus.
10 sacks of Neat at surface.
Install dry hole marker.

(VERBAL APPROVAL BY E.W. GUYNN ON 2-17-80)

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
UNITED STATES OF AMERICA

SUNDRY NOTICES AND REPORTS ON WELLS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(FORM 9-329)

(2/76)

OMB 42-RO 356

MONTHLY REPORT
OF
OPERATIONS

Lease No. 43-012352
Communitization Agreement No. _____
Field Name Unnamed
Unit Name _____
Participating Area _____
County Wayne State Utah
Operator Southland Royalty Company
☐ Amended Report WELL NAME Burr Desert

The following is a correct report of operations and production (including status of all unplugged wells) for the month of FEBRUARY, 19 80

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396 d), regulation (30 CFR 221.60), and the terms of the lease. Failure to report can result in the assessment of liquidated damages (30 CFR 221.54 (j)), shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (30 CFR 221.53).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
1	24 SENE	30S	12E	P&A					Drilled To TD 6880'. P&A 2-22-80

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MAR 26 1980
DIVISION OF
OIL, GAS & MINING

*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Produced	_____	_____	_____
*Sold	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Spilled or Lost	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXXXX	_____	XXXXXXXXXXXXXXXXXXXX
*Used on Lease	_____	_____	XXXXXXXXXXXXXXXXXXXX
*Injected	_____	_____	_____
*Surface Pits	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX	_____
*Other (Identify)	_____	_____	_____
*On hand, End of Month	_____	XXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	_____	_____	XXXXXXXXXXXXXXXXXXXX

Authorized Signature: [Signature] Address: P. O. Drawer 570, Farmington, New Mexico
Title: District Production Manager Page One of One 87401

May 23, 1980

Southland Royalty
P.O. Drawer 570
Farrington, New Mexico 87401

Re: Well No. Burr Desert #1
Sec. 24, T. 30S, R. 12E.
Wayne County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, and forward it to this office as soon as possible.

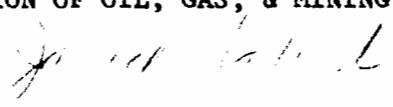
Also, rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Please forward any logs that were run on the above well together with the Well Completion.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS, & MINING


JANICE TABISH
CLERK-TYPIST



Southland Royalty Company

June 9, 1980

State of Utah
Division of Oil, Gas, and Mining
Ms. Janice Tabish
1588 West North Temple
Salt Lake City, UT 84116

RECEIVED
JUN 11 1980

DIVISION OF
OIL, GAS & MINING

RE: Burr Desert #1
Sec. 24, T39S, R12E
Wayne Cnty, UT

Dear Ms. Tabish:

Attached is a Well Completion or Recompletion Report and log for the above referenced well in accordance with the State of Utah rules and regulations.

In reference to rule C-5, of the General Rules and Regulations and Rules of Practice and Procedure, copies of the electric and radioactivity logs will be sent to you under separate cover by our office in Denver, Colorado.

Thank you for your patience concerning these logs. If I can be of further assistance, please contact me.

Sincerely,

SOUTHLAND ROYALTY COMPANY

Krista Edwards
Secretary to the District Engineer

Attachments

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	Other _____		
b. TYPE OF COMPLETION:		NEW WELL <input type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other <u>Plug & Abandon</u>
2. NAME OF OPERATOR <u>Southland Royalty Company</u>							
3. ADDRESS OF OPERATOR <u>P. O. Drawer 570, Farmington, NM 87401</u>							
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface <u>1990' FNL & 750' FEL SE NE</u> At top prod. interval reported below At total depth							
14. PERMIT NO. <u>43-055-30026</u>				DATE ISSUED <u>10-10-79</u>			
15. DATE SPUDDED <u>11-29-79</u>	16. DATE T.D. REACHED <u>2-15-80</u>	17. DATE COMPL. (Ready to prod.) <u>2-22-80 P&A</u>		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* <u>5165' GR</u>		19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD <u>6880'</u>		21. PLUG, BACK T.D., MD & TVD <u>----</u>		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY <u>0'-6880'</u>	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* <u>Not completed</u>						25. WAS DIRECTIONAL SURVEY MADE <u>Deviation</u>	
26. TYPE ELECTRIC AND OTHER LOGS RUN <u>Comp. Neut. Dens., Dual Laterolog-SFL, Borehole Comp. Sonic, Dual Ind.</u>						27. WAS WELL CORED <u>Yes</u>	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
<u>13 3/8"</u>		<u>48#</u>		<u>214'</u>		<u>17 1/2"</u>	
<u>9 5/8"</u>		<u>32.3#</u>		<u>2890'</u>		<u>12 1/4"</u>	
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD		
					SIZE	DEPTH SET (MD)	PACKER SET (MD)
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.		
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY DIVISION OF OIL, GAS & MINING	
35. LIST OF ATTACHMENTS							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <u>Ken Ryan</u>		TITLE <u>District Production Manager</u>				DATE <u>5-30-80</u>	

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

*** General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in Item 22, and in Item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in Item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	MEAS. DEPTH	TRUE VERT. DEPTH
Navajo	380'						
Kayenta	982'						
Wingate	1212'						
Chinle	1530'						
Moenkopi	1888'						
White Rim	2350'						
Organ Rock	2840'						
Cedar Mesa	3006'						
Elephant Canyon	3840'						
Pennsylvanian	4328'						
smay	4752'						
Paradox	4906'						
Akah	5078'						
Barker Creek	5218'						
Pinkerton Trail	5330'						
Molas	5692'						
Mississippian	5826'						
Devonian	6674'						
Elbert	6738'						
McCracken	6804'						



Southland Royalty Company

June 16, 1980

Janice Tabish
1588 W. North Temple
Salt Lake City, Utah 84116

Ms. Tabish,

Enclosed are copies of the petrophysical logs run on our Burr Desert #1 well located in Section 24, T30S-R12E, Wayne County, Utah. Please advise if there are any additional requirements of the State of Utah concerning this well. Thank you.

Sincerely,

Robert M. Mason
District Geologist

RMM:tmo

Attachments

Robert M. Mason
District Geologist
Southland Royalty Co.
410 17th Street, Ste. 1000
Denver, Colo. 80202

RECEIVED
JUN 17 1980

DIVISION OF
OIL, GAS & MINING